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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/614,277		07/08/2003	Haruyoshi Ono	030824	7735	
38834	7590	09/29/2006		EXAMINER		
		HATTORI, DAN	VAN ROY, TOD THOMAS			
SUITE 700		ICUT AVENUE, NV	V	ART UNIT	PAPER NUMBER	
WASHING	GTON,	DC 20036	2828			
				DATE MAILED: 09/29/200	6	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	10/614,277	ONO ET AL.	
Office Action Summary	Examiner 101	Art Unit	
	Tod T. Van Roy	2828	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period wa - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).	
Status			
1)⊠ Responsive to communication(s) filed on 25 Ju	ılv 2006		
	action is non-final.		
3) Since this application is in condition for allowar		secution as to the merits is	
closed in accordance with the practice under E	•		
Disposition of Claims			
4)⊠ Claim(s) <u>9-24</u> is/are pending in the application.			
4a) Of the above claim(s) is/are withdray			
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>9-24</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/or	r election requirement.		
Application Papers			
9) The specification is objected to by the Examine	r		
10) The drawing(s) filed on is/are: a) acce	<u></u>	Examiner.	
Applicant may not request that any objection to the			
Replacement drawing sheet(s) including the correct			
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).	
1. Certified copies of the priority documents	s have been received.		
2. Certified copies of the priority documents	s have been received in Applicati	on No	
3. Copies of the certified copies of the prior	rity documents have been receive	ed in this National Stage	
application from the International Bureau	` ''		
* See the attached detailed Office action for a list	of the certified copies not receive	d.	
Attachment(s)			
1) Notice of References Cited (PTO-892)	4) Interview Summary	•	
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 	Paper No(s)/Mail Da 5) Notice of Informal F 6) Other:	ate Patent Application (PTO-152)	

Office Action Summary

DETAILED ACTION

Response to Amendment

The examiner acknowledges the amending of claims 1, 9, 10, 12, 14, 15, 17, 19, 20, 22, 22, and 24.

Response to Arguments

Applicant's arguments filed 07/25/2006 have been fully considered but they are not persuasive.

The applicant has amended the claims to include operation over a controlled range. The examiner does not agree that this distinguishes the applicant's invention from that of the cited prior art. It is believed that the cited prior art is disclosed to operate over a given temperature and power range as shown in figs. 3A/B and is discussed in the specification (pg.5 lines 4-10). The examiner is of the opinion that the difference between the cited prior art and that of the instant invention is the operation of the system *outside* of the defined temperature and power ranges. As noted in the specification, the cited prior art ceases operation and marks the diode for replacement outside of the defined range, while the instant invention appears to continue operation with a functional diode. As the claim limitations do not clearly reflect a difference between the instant invention and that of the cited prior art the examiner believes that the rejection is correctly applied.

Please see below for an updated rejection to the claims.

Claim Rejections - 35 USC § 102

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

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Claims 9-24 are rejected under 35 U.S.C. 102(a) as being anticipated by applicant's disclosed prior art (hereafter 'prior art').

With respect to claims 9 and 19, the prior art discloses a setting value generating device that generates such a setting value that causes laser light emitted from a laser module to have a predetermined wavelength (lambda target, spec. pg.4 line 17) and satisfies predetermined temperature conditions and predetermined power intensity conditions (fig.3a, defined temp / power ranges), the setting value generating device comprising: an optimum power intensity calculating unit (fig.1 #120) that calculates an optimum power intensity (pg.4 lines 5-11, P_cent calculated as difference between P_High and P_Low of the predetermined power range) that maintains the predetermined wavelength and satisfies a predetermined temperature range and a predetermined power intensity range (maintained via APC feedback); an optimum temperature calculating unit (fig.1 #120) that calculates an optimum temperature (pgs.4-5 lines 37-9) that maintains the predetermined wavelength and satisfies the predetermined temperature range and the predetermined power range (via the control feedback loop); and a setting value generating unit (fig.1 #120) that generates the setting value based on the optimum power intensity calculated by the optimum power intensity calculating unit and the optimum temperature calculated by the optimum temperature calculating unit (setting values generated based on temp/wavelength/power, pg.6 lines 17-21).

With respect to claims 10 and 20, the prior art discloses a relational expression defining unit (fig.1 #120) that defines a relational expression between a temperature and

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a power intensity that causes the laser module to maintain the predetermined wavelength (T_cal defined on pg.4, relating temperature, wavelength, and inherently relating the power intensity as the power intensity applied to the device influences both the temperature of the device itself, as well as the wavelength the device is outputting under the current conditions); a power intensity upper and lower limit defining unit (fig.1 #120, shown defined in fig.3a) that defines an upper limit value and a lower limit value of a power intensity that satisfies the relational expression and also satisfies the predetermined temperature range and the predetermined power intensity range (P_High, P_Low); wherein the optimum power intensity calculating unit calculates the optimum power intensity that is the middle value between the upper limit value and the lower limit value of the power intensity defined by the power intensity upper and lower limit defining unit (see claim 1); and the optimum temperature calculating unit substitutes the optimum power intensity calculated by the optimum power intensity calculating unit in the relational expression defined by the relational expression defining unit (see claim 1, also, the P_cent value is set prior to the temp feedback loop, so the value would be used in the calculation as described in the rejection to claim 1, fig.2 S14).

With respect to claims 11 and 21, the prior art discloses the laser module can vary wavelengths (inherent, set target wavelength would not be necessary if only 1 wavelength were possible), and the setting value is generated in relation with each of the wavelengths (setting value generated with chosen target wavelength).

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Claim s12 and 22 are rejected for the reasons outline in the rejections to claims 10 and 11. The prior art has disclosed the presence of multiple wavelengths being present in the transmitting device, each being stabilized when appropriately selected. It is inherent that there would be a shortest wavelength and a longest wavelength available, and that the relational expression unit, and power and temperature calculating unit (fig.1 #120) would control the shortest and longest wavelength conditions respectively.

With respect to claims 13 and 23, the prior art discloses a setting value storage unit that stores the setting value generated by the setting value generating unit, wherein the laser module contains unique identification information, and the setting value storage unit relates the setting value to the unique identification information and stores the setting value (pg.6 lines 17-24).

Claims 14-18 are rejected for the same reasons given in the rejection to claims 9-13, as they are the methods for calculating the setting value that has been disclosed in the prior art.

Claim 24 is rejected for the same reasons given for the rejection to claims 9 and 19 above, as it is inherent that a recording medium of some type must be present for the computer functioning as the calculating unit to run the given program since the program itself must have been recorded to be read by the computer.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tod T. Van Roy whose telephone number is (571)272-8447. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Minsun Harvey can be reached on (571)272-1835. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TVR

PRIMARY EXAMINER